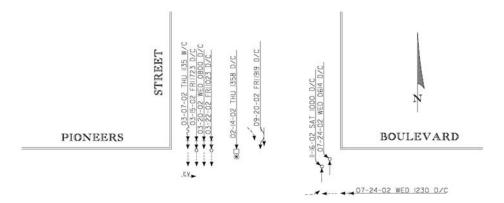
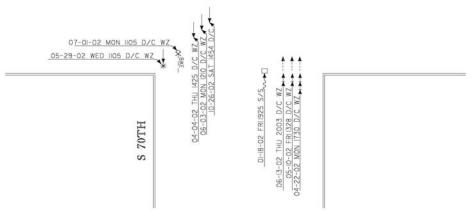
5.10 70th Street and Pioneers Boulevard

BEFORE

ADT: 30,625 veh/day (2002) **Time Period:** 2002

Traffic Control: Actuated Coordinated Signal **Crash Pattern:** NB & SB Rear Ends NB Left Turns





Total Crashes in Before Period: 18



5.10 70th Street and Pioneers Boulevard

AFTER

Countermeasures: Installed Right Turn Signal Display

May 17, 2002

and Left Turn Offset

Improvement

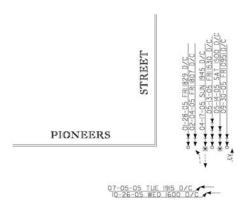
Completion Date:

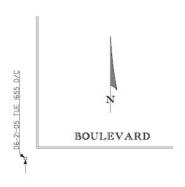
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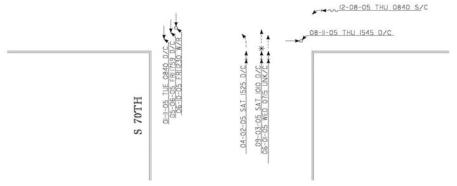
Time Period: 2005

Speed Limits: NS Arterial- 45 mph EW Arterial- 40 mph EB/

45 mph WB







Total Crashes in After Period: 17



70th Street and Pioneers Boulevard - Southbound Approach (After)

5.10 70th Street and Pioneers Boulevard

COMPARISON

Countermeasures: Installed Right Turn Signal Display and Left Turn Offset

Improvement Completion Date: May 17, 2002

	Before	After	Change
Analysis Period	2002	2005	-
Primary Crash Benefit			
Total Number of Correctable Crashes	9	10	11%
All Other Intersection Crashes	9	7	-22%
Intersection Crash Experience			
Injury + Fatal Crashes	5	6	20%
Property Damage-Only Crashes	11	8	-27%
Non-Reportable Crashes	2	3	50%
Total Number of Intersection Crashes	18	17	-6%
Total Intersection Benefit			
Crash Rate	1.61	1.52	-6%
EPDO Rate	5.56	6.23	12%
EPDO Number*	62.16	69.65	7.49

Cost of Property Damage Crash: \$ 6,200
Total Benefit (12 months): \$ (46,438)
Equivalent Uniform Annual Benefit \$ (56,617)
(EUAB):

Total Cost of Improvements:

Equivalent Uniform Annual Cost (EUAC): \$ 205 Initial Cost: \$ 2,000

Benefit-Cost Ratio: $\frac{$ (56,617)}{$ 205} = -276.2$

Net Benefit (Present Worth): \$ (56,617) - \$205 = (\$56,822)

*Change NOT Statistically Significant at 95% Confidence Interval



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